

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER ZIMR/0048
INTERNATIONAL APPLICATION NO. PCT/EP2005/001637		INTERNATIONAL FILING DATE 17 February 2005 (17.02.2005)
TITLE OF INVENTION HIGH CURRENT DENSITY PARTICLE BEAM SYSTEM		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/593240
APPLICANT(S) FOR DO/EO/US Juergen FROSIEN		PRIORITY DATE CLAIMED 19 March 2004 (19.03.2004)

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/593246	INTERNATIONAL APPLICATION NO. PCT/EP2005/001637	ATTORNEY'S DOCKET NUMBER ZIMR/0048																																																																						
20. Other items or information:																																																																								
The following fees are submitted: 21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)).....\$300 22. <input checked="" type="checkbox"/> Examination Fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US to the international preliminary examination report prepared By IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....\$0 All other situations\$200 23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion prepared by ISA/US to the international preliminary examination report prepared By IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....\$0 Search fee (37 CFR 1.445(a)(2) has been paid on the international application to the USPTO as an International Searching Authority\$100 International Search Report prepared by an ISA other than the US and provided in the Office or previously communicated to the US by the IB.....\$400 All other situations\$500		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">CALCULATIONS</th> <th style="text-align: left;">PTO USE ONLY</th> </tr> <tr> <td>\$ 300.00</td> <td></td> </tr> <tr> <td>\$ 200.00</td> <td></td> </tr> <tr> <td>\$ 400.00</td> <td></td> </tr> <tr> <td>TOTAL OF 21, 22 and 23 =</td> <td>\$ 900.00</td> </tr> <tr> <td colspan="2" style="height: 40px;"> <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821 (c) or (e) computer program listing filed in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. </td> </tr> <tr> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Total Sheets</th> <th>Extra sheets</th> <th>Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th>RATE</th> </tr> <tr> <td>- 100 =</td> <td>0/50 =</td> <td></td> <td>x \$250</td> </tr> </table> </td> <td>\$ 0</td> </tr> <tr> <td colspan="2"> Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). </td> <td>\$</td> </tr> <tr> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> </tr> <tr> <td>Total claims</td> <td>33 - 20 =</td> <td>13</td> <td>x \$50</td> </tr> <tr> <td>Independent claims</td> <td>4 - 3 =</td> <td>1</td> <td>x \$200</td> </tr> </table> </td> <td>\$ 650.00</td> </tr> <tr> <td colspan="2"> MULTIPLE DEPENDENT CLAIM(S) (if applicable) </td> <td>+ \$360</td> </tr> <tr> <td colspan="2">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ 1750.00</td> </tr> <tr> <td colspan="2"> <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. </td> <td>\$</td> </tr> <tr> <td colspan="2">SUBTOTAL =</td> <td>\$ 1750.00</td> </tr> <tr> <td colspan="2"> Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). </td> <td>+</td> </tr> <tr> <td colspan="2">TOTAL NATIONAL FEE =</td> <td>\$ 1750.00</td> </tr> <tr> <td colspan="2"> Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property </td> <td>+</td> </tr> <tr> <td colspan="2">TOTAL FEES ENCLOSED =</td> <td>\$ 1750.00</td> </tr> <tr> <td colspan="2" rowspan="2"></td> <td>Amount to be refunded:</td> <td>\$</td> </tr> <tr> <td>Amount to be charged:</td> <td>\$</td> </tr> </table>		CALCULATIONS	PTO USE ONLY	\$ 300.00		\$ 200.00		\$ 400.00		TOTAL OF 21, 22 and 23 =	\$ 900.00	<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821 (c) or (e) computer program listing filed in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Total Sheets</th> <th>Extra sheets</th> <th>Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th>RATE</th> </tr> <tr> <td>- 100 =</td> <td>0/50 =</td> <td></td> <td>x \$250</td> </tr> </table>	Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	- 100 =	0/50 =		x \$250	\$ 0	Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> </tr> <tr> <td>Total claims</td> <td>33 - 20 =</td> <td>13</td> <td>x \$50</td> </tr> <tr> <td>Independent claims</td> <td>4 - 3 =</td> <td>1</td> <td>x \$200</td> </tr> </table>	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	33 - 20 =	13	x \$50	Independent claims	4 - 3 =	1	x \$200	\$ 650.00	MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ \$360	TOTAL OF ABOVE CALCULATIONS =		\$ 1750.00	<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.		\$	SUBTOTAL =		\$ 1750.00	Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		+	TOTAL NATIONAL FEE =		\$ 1750.00	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		+	TOTAL FEES ENCLOSED =		\$ 1750.00			Amount to be refunded:	\$	Amount to be charged:	\$
CALCULATIONS	PTO USE ONLY																																																																							
\$ 300.00																																																																								
\$ 200.00																																																																								
\$ 400.00																																																																								
TOTAL OF 21, 22 and 23 =	\$ 900.00																																																																							
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821 (c) or (e) computer program listing filed in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.																																																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Total Sheets</th> <th>Extra sheets</th> <th>Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th>RATE</th> </tr> <tr> <td>- 100 =</td> <td>0/50 =</td> <td></td> <td>x \$250</td> </tr> </table>	Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	- 100 =	0/50 =		x \$250	\$ 0																																																															
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE																																																																					
- 100 =	0/50 =		x \$250																																																																					
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$																																																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> </tr> <tr> <td>Total claims</td> <td>33 - 20 =</td> <td>13</td> <td>x \$50</td> </tr> <tr> <td>Independent claims</td> <td>4 - 3 =</td> <td>1</td> <td>x \$200</td> </tr> </table>	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	33 - 20 =	13	x \$50	Independent claims	4 - 3 =	1	x \$200	\$ 650.00																																																											
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE																																																																					
Total claims	33 - 20 =	13	x \$50																																																																					
Independent claims	4 - 3 =	1	x \$200																																																																					
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ \$360																																																																						
TOTAL OF ABOVE CALCULATIONS =		\$ 1750.00																																																																						
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.		\$																																																																						
SUBTOTAL =		\$ 1750.00																																																																						
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		+																																																																						
TOTAL NATIONAL FEE =		\$ 1750.00																																																																						
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		+																																																																						
TOTAL FEES ENCLOSED =		\$ 1750.00																																																																						
		Amount to be refunded:	\$																																																																					
		Amount to be charged:	\$																																																																					


- a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 20-0782 (ZIMR/0048/KMT) in the amount of \$ 1750.00 to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment of Deposit Account No. 20-0782 (ZIMR/0048/KMT) . A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charge to a credit card. **WARNING** : Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.37(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Date: September 18, 2006

THE ATTORNEYS ASSOCIATED WITH
CUSTOMER NO. 26290



SIGNATURE

Keith M. TACKETT

NAME

REGISTRATION NUMBER: 32,008

PATTERSON & SHERIDAN, L.L.P.
3040 Post Oak Blvd., Suite 1500
Houston, TX 77056-6582
Phone (713) 623-4844
Fax (713) 623-4846

10/593246
IAP9/Rec'd PCT/EP 18 SEP 2006

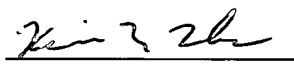
PATENT
Atty. Dkt ZIMR/0048

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

In re Application of: Juergen FROSIEN	§ § §	Int'l Application No.: PCT/EP2005/001637
Serial No.: to be assigned	§ §	Int'l Filing Date: 17 February 2005 (17.02.2005)
Filed: herewith	§ §	Priority Date: 19 March 2004 (19.03.2004)
For: HIGH CURRENT DENSITY PARTICLE BEAM SYSTEM	§ §	

MAIL STOP PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

CERTIFICATE UNDER 37 CFR 1.10	
I hereby certify that this correspondence and the documents referred to as attached therein are being deposited on September 18, 2006, with the United States Postal Service in an envelope as "Express Mail Post Office to Addressee," mailing label No. EV763975515US, addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
9/18/06 Date	 Signature


LETTER OF TRANSMITTAL

Enclosed for filing are the following documents:

- 1) Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371;
- 2) Preliminary Amendment;
- 3) Information Disclosure Statement;
- 4) Unexecuted Combined Declaration and Power of Attorney; and
- 5) Return Postcard.

Respectfully submitted,

Date: 9/18/06



Keith M. TACKETT
Registration No. 32,008
PATTERSON & SHERIDAN, LLP
3040 Post Oak Blvd., Suite 1500
Houston, Texas 77056
Telephone 713/623-4844
Facsimile 713/623-4846
Attorneys for Applicant

DOCKET No.: 21MR/0048
SERIAL No.: PCT/EP2005/001637
FILED: 17 February 2005
APPLICANT: ICT Integrated Circuit...
INVENTOR: Juergen Prosen

The Patent & Trademark Office acknowledges and has stamped
hereon the date of receipt of the items checked below which were
mailed September 18, 2006

- ☐ AFFIDAVIT
- ☐ AMENDMENT
- ☐ APPLICATION PAPERS - OATH/DECLARATION
- ☒ TOTAL CLS. 33 IND. CLS. 4 FEE \$ 1750.00
- ☐ SHEET(S) OF DRAWING(S) FORMAL/INFORMAL
- ☐ ASSIGNMENT-RECORDAL FEE \$ _____
- ☐ BRIEF
- ☐ APPEAL NOTICE
- ☐ DECLARATION
- ☐ ISSUE FEE - BASE/BALANCE
- ☐ LETTER - CHARGE DEPOSIT ACCOUNT
- ☐ LETTER - Transmittal
- ☐ TRADEMARK/SERVICEMARK APPLICATION
- ☐ PETITION
- ☒ PRELIMINARY AMENDMENT
- ☒ INFORMATION DISCLOSURE STATEMENT
- ☐ REQUEST FOR EXTENSION OF TIME
- ☐ RESPONSE TO _____
- ☐ SPECIMENS
- ☐ SMALL ENTITY
- ☐ CHECK # _____ IN THE AMOUNT OF \$ _____
- ☒ Unsigned Declaration
- ☐ _____

*Transmittal
Ltr. to DO/
EO/US*

EXPRESS MAIL # EV763975515US MAIL LOG # 26063
SW